

- ▶ A spreadsheet that shows
 - ▶ Short term and long term trends in maternal and child health indicators
 - ▶ Healthy People 2020 and Colorado 2020 targets
 - ▶ Progress
 - ▶ Problems
- ▶ Everything you want to know about 49 indicators
 - ▶ Preconception/prenatal
 - ▶ Infants
 - ▶ Children
 - ▶ Teens
 - ▶ Oral health

State of Colorado Trend Analysis, 2012										
Progress/Trajectory Healthy People 2020 Targets vs. Colorado 2010 Targets										
National and World Health Indicators (Groupings/Stratified)	Source	Healthy People 2010 Target	Year				Short Term Trend 2006 to 2010	5 Year Trend 2006 to 2010	2010 Prevalence Relative to 2000	
			2006	2007	2008	2009				
To reduce the rate of deaths in 2 weeks during pregnancy	BC	14.0%	N/A	N/A	11.2%	11.1%	10.7%	32.4%	N/A	Missed target
To increase adult appropriate weight during pregnancy ¹	BC	35% ²	N/A	N/A	21.2%	21.1%	22.1%	N/A	N/A	Close to target
To increase confidence in one's health practitioner	HC	20% ³	N/A	N/A	21.0%	21.0%	20.9%	N/A	N/A	Close to target
To increase received adequate prenatal care	BC	77.7%	61.4%	74.3%	67.9%	67.0%	68.0%	61.0%	+12%	Close to target
To initiate breastfeeding	11/AMM	32% ⁴	40%	40%	36%	37%	40%	30%	No real change	10%
To increase 18-44 month child not in good in first 30 days	BHFFS	40% ⁵	40%	41%	42%	43%	47%	Worse	2%	Close to target
To increase 18-44 who are physically active in last 30 days	US CDC	30% ⁶	17%	62%	62%	62%	64%	64%	N/A	Close to target
To increase adult who are physically active in last 30 days	BHFFS	40% ⁵	40%	40%	39%	38%	37%	37%	N/A	Close to target
To increase who smoke during pregnancy as a mother at pregnancy	BC	3.4%	N/A	N/A	3.1%	2.9%	3.1%	3.0%	Increased ⁷	N/A
To increase who deliver child at 3 months pregnancy	PRAMM	1.7%	N/A	11%	11%	11%	11%	11%	No real change	+20%
To increase with exclusive breastfeeding during pregnancy	HC	1.7%	N/A	N/A	11.0%	11.7%	11.9%	12.7%	N/A	N/A
To increase 18-44 eating 2+ fruits and vegetables daily	BHFFS	N/A	22%	N/A	25%	N/A	27%	N/A	N/A	N/A
Unemployment rate ⁸ , women with children under 18 ⁹	ACS	N/A	N/A	N/A	7%	7%	6%	5%	Worse ¹⁰	N/A
Unemployment rate ⁸ , women with children under 18 ⁹	ACS	N/A	N/A	N/A	7%	7%	6%	5%	Worse ¹⁰	N/A
To increase maternal smoking cessation	PRAMM	50% ¹¹	80%	90%	90%	90%	92%	50%	No real change	N/A
To increase breastfeeding at 6 months	BC	52.0%	51%	54%	55%	55%	51%	51%	Improved	+35%
To reduce low birth weight infants at Level III	BC	8.1%	7.4%	8.1%	8.1%	8.8%	8.3%	8.2%	Improved	+15.3%
Child mortality rate	US CDC	9.2	8.1	9.7	8.1	8.2	8.2	8.2	Worse	2.2%
Reproductive mortality rate	DC	2.0	1.9	1.3	1.8	1.8	2.1	1.6	Worse	15.8%
To increase breastfeeding (N)	USMMS	50% ¹²	30.7%	31.9%	31.2%	31.7%	31.7%	31.3%	Worse	+7.5%
To reduce low birth weight	BC	7.9%	8.1%	8.1%	8.6%	8.6%	8.6%	8.6%	Improved	+1.2%
To increase who smoke during pregnancy	BC	4.1	4.2	4.4	4.4	4.4	4.2	4.2	Improved	N/A
Residential fire mortality rate	DC	N/A	2.3	2.3	2.2	2.2	2.2	2.4	Worse	N/A

Category	Count
Meets target	13
Close to target	17
At some distance	3
Far from target	2

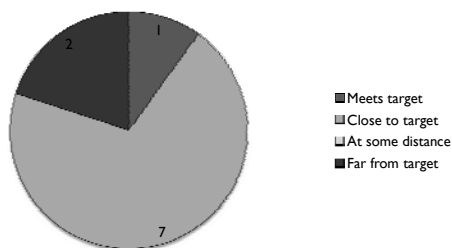
14 indicators do not have a 2020 target

Indicator	HP 2010 Target	HP 2020 Target
Easier to Meet		
Adequate prenatal care	90.0%	77.6%
Infant mortality rate	4.5	6.0
Low birth weight	5.0%	7.8%
Motor vehicle death rate	9.2	12.4
Neonatal death rate	2.9	4.1
Postneonatal death rate	1.2	2.0
Suicide death rate	5.0	10.2
Harder to Meet		
Breastfeeding at 6 mos.	50.0%	60.6%
Child abuse rate	10.3	8.5

Indicator	Distance from HP 2010	Distance from HP 2020
Easier to Meet		
Adequate prenatal care	At some distance	Close to target
Infant mortality rate	At some distance	Meets target
Low birth weight	At some distance	Close to target
Motor vehicle death rate	At some distance	Meets target
Neonatal death rate	At some distance	Close to target
Postneonatal death rate	At some distance	Meets target
Suicide death rate	Far from target	Close to target
Harder to Meet		
Breastfeeding at 6 mos.	Meets target	Meets target
Child abuse rate	Meets target	Close to target

Preconception/Prenatal

Distance to 2020 Target for 10 Indicators



3 indicators do not have a 2020 target

Preconception/Prenatal (continued)

Short Term Trend

- ▶ Right direction
 - ▶ Smoked 3 months before pregnancy
 - ▶ Smoked during last 3 months of pregnancy
- ▶ Wrong direction
 - ▶ Adequate prenatal care
 - ▶ Poor mental health
 - ▶ Unemployment for women with children under 6

Preconception/Prenatal (continued)

- ▶ No real change
 - ▶ Unintended births
 - ▶ Physical activity
 - ▶ Using effective birth control
 - ▶ Drinking during last 3 months of pregnancy
- ▶ Need more data to determine trends
 - ▶ Appropriate weight gain during pregnancy
 - ▶ Overweight/obese before pregnancy
 - ▶ Excessive weight gain during pregnancy
 - ▶ Fruit and vegetable consumption

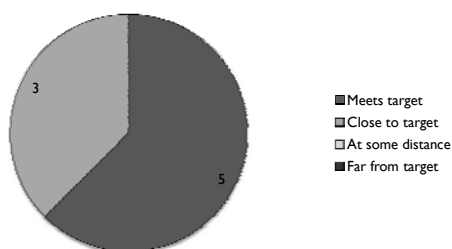
Preconception/Prenatal (continued)

Long Term Trend

- ▶ Unintended births improved
- ▶ Drinking during the last three months of pregnancy worsened

Infants

Distance to 2020 Target for 8 Indicators



One indicator does not have a 2020 target

Infants (continued)

Short Term Trend

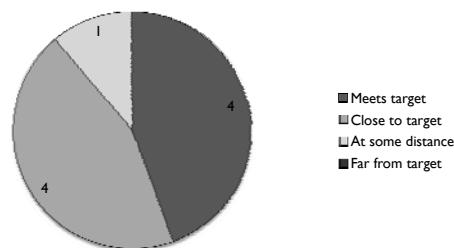
- ▶ Right direction
 - ▶ Breastfeeding at 6 months
 - ▶ Very low birth weight births in level IIIs
 - ▶ Low birth weight births
 - ▶ Neonatal mortality rate
- ▶ No real change
 - ▶ Breastfeeding initiation

Infants (continued)

- ▶ Wrong direction
 - ▶ Infant mortality rate
 - ▶ Postneonatal mortality rate
 - ▶ Newborn hearing screening
 - ▶ Black/White infant mortality ratio
- ▶ Long Term Trend
 - ▶ Breastfeeding at 6 months improved
 - ▶ Very low birth weight births in Level IIIs improved

Children

Distance to 2020 Target for 9 Indicators



4 indicators do not have a 2020 target

Children (continued)

- ▶ Short Term Trend
 - ▶ Right direction
 - ▶ Injury hospitalization rate 0-14
 - ▶ Motor vehicle death rate 0-14
 - ▶ Overweight/obese children
 - ▶ Child abuse rate
 - ▶ Health insurance coverage
 - ▶ Sugar-sweetened beverage consumption
 - ▶ Fruit and vegetable consumption
 - ▶ CHP+ enrollees
 - ▶ Medicaid enrollees
 - ▶ Child death rate 1-14

Children (continued)

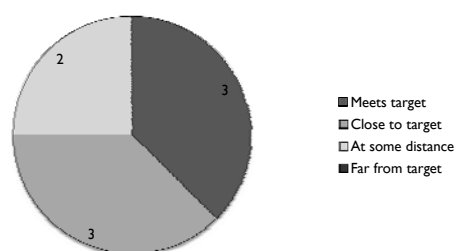
- ▶ Mixed
 - ▶ Parents asked to fill out a questionnaire on child
- ▶ Wrong direction
 - ▶ Children 0-18 at or below 100% federal poverty level
- ▶ Need more data to determine trend
 - ▶ Children 1-14 with a medical home

Children (continued)

- ▶ Long Term Trend
 - ▶ Injury hospitalization rate 0-14 improved
 - ▶ Motor vehicle death rate 0-14 improved
 - ▶ Child death rate 1-14 improved
 - ▶ Children 0-18 at or below 100% federal poverty level worsened

Teens

Distance to 2020 Target for 8 Indicators



4 indicators do not have a 2020 target

Teens (continued)

- ▶ Short Term Trend
 - ▶ Right direction
 - ▶ Injury hospitalization rate
 - ▶ Motor vehicle death rate
 - ▶ Physical activity
 - ▶ Using effective birth control
 - ▶ Teen fertility rate
 - ▶ Wrong direction
 - ▶ Graduation rate
 - ▶ Teen suicide death rate
 - ▶ Chlamydia rate

▶

Teens (continued)

- ▶ Need more data to determine trend
 - ▶ Participation in extracurricular activities
 - ▶ Sugar-sweetened beverage consumption
 - ▶ Eating breakfast every day
 - ▶ School enjoyment
- ▶ Long Term Trend
 - ▶ Injury hospitalization rate improved
 - ▶ Motor vehicle death rate improved
 - ▶ Teen fertility rate improved
 - ▶ Chlamydia rate worsened

▶

Oral Health

- ▶ 2 indicators
 - ▶ No 2020 targets
- ▶ Short Term Trend
 - ▶ Right direction
 - ▶ Medicaid dental served
 - ▶ No real change
 - ▶ Children who went to a dentist by age 1

▶

In Conclusion

Summary

- ▶ Colorado is meeting many 2020 targets already
 - ▶ But remember many are easier to meet now
- ▶ The majority of indicators showed improvement over the past five years (2006-2010)
- ▶ Nine indicators showed improvement since 2000; three were worse than in 2000 (where measurable)

▶

In Conclusion (continued)

- What Needs to Happen Next
- ▶ Maintain indicators meeting the targets
 - ▶ Work to improve those
 - ▶ Not meeting the targets
 - ▶ Going in the wrong direction

▶

Data Sources

- ▶ Colorado Health and Environmental Data (CHED)
 - ▶ <http://www.chd.dphe.state.co.us/default.aspx>
- ▶ Colorado Health Information Dataset (CoHID)
 - ▶ <http://www.chd.dphe.state.co.us/cohid/Default.aspx>
- ▶ Children with Special Health Care Needs
 - ▶ <http://www.colorado.gov/cs/Satellite/CDPHE-PSD/CBON/1251617590646>

▶